

Application Number	09/009,455
Filing Date	01/20/1998
First Named Inventor	Mills
Group Art Unit	1745
Examiner Name	Kalafut

Attorney Docket Number	9113-20US
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12/03/2007

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PTO/SB/08A (Modified)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
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			Group Art Unit	1745	
			Examiner Name	Kalafut	
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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite N o.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
/SK/		WO	94/29873	A2	Mills	12-22-1994		
		WO	99/05735	A1	Mills	03-04-1999		
		WO	99/26078	A1	Mills	5-27-1999		
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
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		Examiner Name	Kalafut		
Sheet	13		26 47	Attorney Docket Number	9113-20US

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		108. R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI). Special Edition in Energy Systems, in press. (Internet Publication Date: April		
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		Hydrino Theory, <http://en.wikipedia.org/wiki/hydrino_theory>	
		"The Hydrogen Atom," <http://www.physics.nmt.edu/~raymond/classes/ph19xbook/node206.html>	
		Hydrogen News 1999 <http://www.ch2bc.org/bulletin/bulletin10001112.htm>	
/SK/		Real Climate, 20 January 2005, "Peer Review: A Necessary But Not Sufficient Condition," <http://www.realclimate.org/index.php?p=109>	
		E-K Gouw, "Anomalous Broadening and Splitting of Hel and Ar lines in microwave plasmas," unpublished data, 12/01/2003.	
/SK/		Time 2 wake up: "New Power SOURCE that turns physics on its head," 11/09/2005.	
		Chemistry Course Listings in MIT OpenCourseWare. MIT 2005. http://ocw.mit.edu/Ocw/Web/Chemistry/index.htm	
		Conversion Table egs/Gi Units. www.plasmaphysics.org.uk/convers.htm (also cited on page 9)	
Examiner Signature	/Stephen Kalafut/		Date Considered 12/03/2007

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number	09/009,455		
		Filing Date	01/20/1998		
		First Named Inventor	Mills		
		Group Art Unit	1745		
		Examiner Name	Kalafut		
Sheet	34		9/6 47	Attorney Docket Number	9113-20US

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		NIOT's Physical Reference Datasheet, "Energy Levels of Hydrogen and Deuterium," <URL http://physics.nist.gov/PhysRefData/HDEL/index.html>	
		Welcome to MIT's OpenCourseWare Home Page. MIT 2005. http://ocw.mit.edu/index.html	
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PTO/SB/08A (Modified)

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			Filing Date	01/20/1998		
			First Named Inventor	Mills		
			Group Art Unit	1745		
			Examiner Name	Kalafut		
Sheet	26	of	26	47	Attorney Docket Number	9113-20US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Citation No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
/SK/		JP	2002008892		Shimazu	01-2002		

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				Filing Date	01/20/1998
				First Named Inventor	Mills
				Group Art Unit	1745
Examiner Name	Langel Kalafut				
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U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
/SK/		A 353,871		Baditt, et al	10-12-1982	
/SK/		A 702,894		Comish	10-27-1987	
/SK/		A 808,286		Angelo, II	02-28-1989	

FOREIGN PATENT DOCUMENTS								
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Sheet <u>2</u>	38	of	47	Attorney Docket Number	62-226-8A3

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		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- α Excitation in Ar-H ₂ Radio-Frequency Discharges" J. Appl. Phys. Vol. 78, No. 2, pp. 746-756, July 1995.	
		Thorne, et. al., "Recombination during the Electrolysis of Light Water in 0.6 M K ₂ CO ₃ Can It Account for the Reports of Excess Heat?" Departments of Physics and Chemistry, Brigham Young University, June 1993.	
		Fujimoto, et. al., "Ratio of Balmer line intensities resulting from dissociative excitation of molecular hydrogen in an ionizing plasma." J. Appl. Phys. Vol. 66, No. 6, pp. 2315-2319, Sept. 1989.	
		Hollander, et. al. "Vacuum ultraviolet emission from microwave plasmas of hydrogen and its mixtures with helium and oxygen." J. Vac. Sci. Technol. A12 (3), pp. 879-882, May/June 1994.	
		Kursica, et. al., "Line Shapes of Atomic Hydrogen in a Plane-Cathode abnormal glow discharge." Physical Review A, Vol. 46, No. 7, pp. 4429-4432, October 1992.	
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		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	
		Boniface, et. al. "Calorimetry for a Ni/K ₂ CO ₃ Cell." AECL Research, June 1994.	
		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.	
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		Sernert, et. al. "Anomalous Heat From Atomic Hydrogen in Contact with Potassium Carbonate." Thermacore, Inc.	
		Haus. "On the radiation from point charges." <i>American Journal of Physics</i> , Vol 54, No 12, December 1986. Pp. 1126-1129.	
		Jansson. "Hydrocatalysis: A New Energy Paradigm for the 21 st Century." A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.	
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		Karapins and Porter. <i>Atoms and Molecules: An Introduction for Students of Physical Chemistry</i> , The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567.	

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		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	
		Kurtz, et. al. "Report on Calorimetric Investigations of Gas-Phase Catalyzed Hydrino Formation." Hydrocatalysis Power Corp. Report, December 1996.	
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		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.	
		Kuraica, et. al. "Line Shapes of Atomic Hydrogen in a Plane-Cathode abnormal glow discharge." <i>Physical Review A</i> , Vol. 46, No 7, October 1992, pp. 4429-4432.	

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			Examiner Name	Langel Kalafut		
Sheet	1	41	of	47	Attorney Docket Number	

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		ABELÈS, Ed., Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides 'Color Centers'", <i>Optical Properties of Solids</i> , 1972, pp. 718-754, North-Holland Publishing Company, Amsterdam	
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		KERKHOFF, "Zum photochemischen Verhalten sauerstoffhaltiger Komplexe in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , 1960 158, pp. 595-606	

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		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Langel Kalafut
Sheet 42	of 47	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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		FISCHER, "Die optische Absorption der U₂-Zentren in Alkalihalogeniden des BaCl-Typs", <i>Zeitschrift für Physik</i>, 1967, 204, pp. 351-374	
		MARTIENSEN, "Photochemische Vorgänge in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i>, 1952, 131, pp. 488-504	
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		KLEINSCHROD, "Photochemische Zersetzung von KH und KB in KBr-Kristallen", <i>Ausgegeben</i>, Jan, 5, 1939, pp. 143-148	
		HILSCH, "Eine neue Lichtabsorption in Alkalihalogenidkristallen", <i>Fachgruppe II</i>, pp. 322-328	
		FRITZ, "Anionlücken und Zwischengitterionen in Alkalihalogenid-Alkalihydrid-Mischkristallen", <i>J. Phys. Chem. Solids</i>, 1962, 23, pp. 375-394, Pergamon Press, Great Britain	

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				Filing Date	1/20/1998
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Longel Kalafut
Sheet 7 43	of 7 47	Attorney Docket Number			

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		Examiner Name	Tangel Kalafut		
Sheet	44	of	47	Attorney Docket Number	

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		BlackLight Power, Inc., pp. 433-440, 2001	
		NEYMABER <i>et al.</i> , "Formation of HeH ⁺ from Low Energy Collisions of Metastable Helium and Molecular Hydrogen", <i>J. Chem. Phys.</i> , 57, pp. 5128-5137, (Dec. 16, 1972)	
		HOLLANDER <i>et al.</i> , "Vacuum ultraviolet emission from microwave plasmas of hydrogen and its mixtures with helium and oxygen", <i>J. Vac. Sci. Technol.</i> , 12, pp. 879-882, (1994)	
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		JOYCE et al., "Ion distribution functions in an Ar-Cl ECR discharge", <i>Plasma Sources Sci. Technol.</i>, 9, pp. 429-436, (2000)	
		KAWAI et al., "Electron temperature, density, and metastable-atom density of argon electron-cyclotron-resonance plasma discharged by 7.0, 8.0, and 9.4 GHz microwaves", <i>J. Vac. Sci. Technol. A</i>, 18, pp. 2207-2212, (2000)	
		ADRAMOVA et al., "Tomado type closed magnetic trap for an electron cyclotron resonance ion source", <i>Review of Scientific Instruments</i>, 71, pp. 921-923, (2000)	
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		MEULENBROEKS et al., "Influence of molecular processes on the hydrogen atomic system in an expanding argon-hydrogen plasma", <i>Phys. Plasmas</i>, 2, pp. 1002-1000 (1995)	
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		Group Art Unit	1745		
		Examiner Name	Kalafut		
Sheet	20 46	of	47	Attorney Docket Number	9113-20US

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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Examiner Signature	/Stephen Kalafut/		Date Considered
		12/03/2007	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/009,455
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		BlackLight Power, "Executive Summary," January 11, 1999, pp. 1-6	
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